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ABSTRACT

The 1989 document, "Curriculum and Evaluation Standards for School Mathematics" provides a vision and a framework for revising and strengthening the K-12 mathematics curriculum in North American schools and for evaluating both the mathematics curriculum and students' progress. The document not only addresses what mathematics students should learn but also how they should learn it. When completed, it is expected that the Addenda Series will consist of 22 supporting books designed to interpret and illustrate how the vision could be translated into classroom practices. Targeted at mathematics instruction in grades K-6, 5-8, and 9-12, the themes of problem solving, reasoning, communication, and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field tested by teachers to ensure that they reflect the realities of today's classrooms. The "Dealing with Data and Chance" booklet of the 5-8 series examines the rapidly changing role of data and chance in middle school mathematics and provides illustrations that can be used for instruction in these topics. Each illustration is made up of series of activities that build on how people naturally use their understanding of data and chance in their daily experiences. The major section of the book, chapters 1 through 5, use classroom activities to illustrate five themes: (1) data gathering by students; (2) communication; (3) problem solving; (4) reasoning; and (5) connections. (MDH)

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